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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,100	696,100 10/29/2003		Joel Jameson	4000735.0023	7104
34755	7590	03/09/2006		EXAM	INER
ADAM K.	SACHA	ROFF	BOYCE, ANDRE D		
MUCH SHE	LIST FR	EED DENENBERG	AMENT&RUBENSTEIN,PC		
191 N. WAC	191 N. WACKER DRIVE				PAPER NUMBER
SUITE 1800				3623	
CHICAGO,	IL 6060	06-1615			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/696,100	JAMESON, JOEL				
Office Action Summary	Examiner	Art Unit				
	Andre Boyce	3623				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		·				
 Responsive to communication(s) filed on <u>07 December</u> This action is FINAL. 2b) This Since this application is in condition for allower closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
 4) ☐ Claim(s) 3 and 4 is/are pending in the applicating 4a) Of the above claim(s) is/are withdraws 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 3 and 4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the specific property in the specific property. 11) The oath or declaration is objected to by the Examine.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

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Response to Amendment

- This Final office action is in response to Applicant's amendment filed December
 2005. Claims 3 and 4 have been amended and are pending.
- 2. The previously pending rejections to claims 3 and 4 under 35 USC §101 have been withdrawn.

The previously pending objection to the specification remains.

3. Applicant's arguments with respect to claim 3 has been considered but are moot in view of the new ground(s) of rejection, necessitated by Applicant's amendments. Further, Applicant's arguments with respect to claim 4 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horrigan et al (USPN 6,493,682), in view of Barrett et al (US 2004/0088392).

As per claim 3, Horrigan et al disclose a computer-implemented method for generating scenarios (multiple optimizations using different scenarios, column 6, lines 62-65) for subsequent use comprising the following steps: Obtaining at least

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two Weighting EFDS (i.e., forecasts in the form of distributions, wherein the joint distribution is between returns and order execution rates, column 4, lines 31-33); Accessing data contained in a Foundational Table (i.e., NxN diagonal matrix, where the investor has N securities to transact, column 11, lines 8-10 and 27-31); resolving non-convergence conflicts between two said Weighting EFDS to determine bin weights and said accessed data contained in said Foundational Table (i.e., dependent variables segregated into bins, with the probability of ending up in one of the bins is estimated, column 20, lines 32-33); Using said bin weights to determine a first at least one weight for a first at least one row of said Foundational Table; Using said bin weights to determine a second at least one weight for a second at least one row of said Foundational Table (i.e., dependent variable may take on 10 values, ranging from 1 to 10, where a 1 corresponds to 0% filled, 2 corresponds to a fill rate >=10%, etc., column 20, lines 33-38); Providing said first at least one weight, said second at least one weight, said first at least one row of said Foundational Table. said second at least one row of said Foundational Table as at least two scenarios in a form suitable for an entity that subsequently uses said at least two scenarios (i.e., the scenario may then be estimated using a generalized maximum likelihood estimation technique, column 20, lines 38-40).

Horrigan et al does not disclose using an iterative proportional fitting procedure that resolves non-convergence conflicts. Barrett et al disclose a system that simulates and analyzes movement and interdependencies between entities in a network (¶ 0057). Further, Barrett et al disclose determining a proportion of entities

in a particular classification (i.e., determining bin weights) using a two-stage iterative proportional fitting procedure (¶ 0075). Horrigan et al and Barrett et al are both concerned with obtaining weights in order to aggregate results, therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to include using an iterative proportional fitting procedure in Horrigan et al, as seen in Barrett et al, as an effective means of determining proportion of entities in each classification, thus making the Horrigan et al system more robust.

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horrigan et al (USPN 6,493,682), in view of Gould et al (USPN 5,966,700).

As per claim 4, Horrigan et al disclose a computer-implemented method to share risk between at least two parties (i.e., determination of whether or not to place an order using a risk averse investor's expected utility maximization, column 4, lines 54-57) comprising the following steps: accepting an ac-Distribution (i.e., joint distribution, column 4, lines 31-33), comprising at least two bins, each said at least two bins having associated probabilities greater than zero (i.e., dependent variables segregated into bins, with the probability of ending up in one of the bins is estimated, including greater than 0% but less than 10% and greater than or equal to 10% but less than 20% column 20, lines 32-38); using at least two bins from said at least two parties (i.e., dependent variables segregated into bins), a logarithmic numeric transformation (e.g., return to an executed purchase order, column 7, lines 13-20), and said accepted contract quantities (i.e., amount to trade) to determine a

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PayoffMatrix comprising at least two rows and at least two columns (i.e., NxN diagonal matrix, where the investor has N securities to transact, column 11, lines 8-10 and 27-31); determining which of said at least two bins subsequently manifests (i.e., probability of ending up in a bin); arranging a transfer of consideration based upon said PayoffMatrix (i.e., determining the scenario using a generalized maximum likelihood estimation technique, column 20, lines 38-40).

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Horrigan et al does not explicitly disclose accepting a distribution of two bins from each of said at least two parties and accepting a contract quantity from each of said at least two parties. Gould et al disclose managing the allocation of risk between a mortgage originator and a funding institute (column 2, lines 21-24), including an agreement between the two parties which defines rates, fees, and total dollar amount (i.e., contract quantity, column 4, lines 20-25). Further, Gould et al disclose determining whether certain rates and fees fall within an acceptable tolerance value of an external fee (i.e., bin separation), and substituting the existing rate and fee schedule for a new one (column 7, lines 28-34). Both Horrigan et al and Gould et al are concerned with optimizing risk aversion, wherein Gould et al disclose allocating risk among parties, therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to include accepting a distribution. comprising at least two bins, from each of said at least two parties and accepting a contract quantity from each of said at least two parties in Horrigan et al, as seen in Gould et al, as an effective means of distributing the risk among a plurality of investors in Horrigan et al, thus making the system more efficient.

Response to Arguments

7. In the Remarks, with respect to claim 3, Applicant argues that neither Horrigan et al nor Gould et al disclose an iterative proportional fitting procedure. The Examiner submits Barrett et al as disclosing this limitation, as seen in the above rejection.

With respect to claim 4, Applicant argues that neither Horrigan et al nor Gould et al disclose using estimated and different probabilities from at least two parties. The Examiner respectfully disagrees and submits that Horrigan et al discloses dependent variables segregated into bins, with the probability of ending up in one of the bins is estimated, including greater than 0% but less than 10% and greater than or equal to 10% but less than 20% (column 20, lines 32-38). In addition, Gould et al disclose an agreement between the two parties which defines rates, fees, and total dollar amount (i.e., contract quantity, column 4, lines 20-25). Further, Gould et al disclose determining whether certain rates and fees fall within an acceptable tolerance value of an external fee (i.e., bin separation). As such, the combination of Horrigan et al, in view of Gould et al indeed disclose using estimated and different probabilities from at least two parties.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre Boyce whose telephone number is (571) 272-6726. The examiner can normally be reached on 9:30-6pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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adb March 2, 2006

TARIQ R. HAFIZ

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600